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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/01/2010

James E. Bradley
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Houston, TX 77208-1389

EXAMINER

TIMBLIN, ROBERT M

ART UNIT

PAPER NUMBER

2167

DATE MAILED: 03/01/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/824,449

04/14/2004

Kendall G. Young

TA-00657

6602

TITLE OF INVENTION: DYNAMIC REFERENCE REPOSITORY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590

03/01/2010

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Houston, TX 77208-1389

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,449	04/14/2004	Kendall G. Young	TA-00657	6602

TITLE OF INVENTION: DYNAMIC REFERENCE REPOSITORY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/01/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
TIMBLIN, ROBERT M	2167	707-102000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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EXAMINER

TIMBLIN, ROBERT M

ART UNIT

PAPER NUMBER

2167

DATE MAILED: 03/01/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 615 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 615 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/824,449	YOUNG ET AL.	
	Examiner	Art Unit	
	ROBERT TIMBLIN	2167	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communications filed 11/19/2009.
2. ☒ The allowed claim(s) is/are Claims 1, 2, 4, 5, 8, 10-12, 13, 15, 16, 17-23, 25-27, 29-33, 36-40, 44-50 (now renumbered 1-38).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

/ROBERT TIMBLIN/
Examiner, Art Unit 2167

DETAILED ACTION

The following pertains to application 10/824,449. Claims 1, 2, 4, 5, 8, 10-12, 13, 15, 16, 17-23, 25-27, 29-33, 36-40, 44-50 (now renumbered 1-38) have been allowed.

Response to Amendment

In the amendment filed 11/19/2009, claims 1-5, 8, 10, 12, 13, 15, 17-23, 25, 27, 29-30, 31-33, 36-37, and 38-40 have been amended, claims 34, and 42-43 cancelled, and claims 44-50 newly added.

The previous claim objections have been withdrawn due to the amendments.

Examiners Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Denver Bisignano (60,693) on 2/18/2010.

The claims presented on 11/19/2009 have been amended subsequent to the interview with Applicant as follows:

1. (Currently amended) A method for maintaining a dynamic reference repository for an enterprise, comprising the steps of:

performing by a processing module, an automated identification of a plurality of enterprise requirements and a plurality of pertinent enterprise technologies based on a plurality of desired enterprise capabilities to identify and populate the dynamic reference repository with a plurality of pertinent inputs required to support the plurality of desired enterprise capabilities;

discovering the pertinent inputs to the dynamic reference repository, the pertinent inputs including updates to a plurality of existing different information resources previously employed to populate the dynamic reference repository, the plurality of existing different information resources containing knowledge accessible to update or add to the collective knowledge stored within the dynamic reference repository;

retrieving the pertinent inputs to the dynamic reference repository to update or add to the collective knowledge stored in the dynamic reference repository;

contextually mapping the pertinent inputs to the dynamic reference repository;

distributing the pertinent inputs to update the dynamic reference repository;

dynamically updating identified enterprise requirements received from a procuring entity responsive to receiving updates to one or more of the following: operational requirements, system requirements, technical requirements, and standards requirements;

dynamically updating identified enterprise technologies responsive to receiving updates to one or more of the following: basic science, technological theory, technological solutions, and technological sources;

dynamically updating identified enterprise subject matter expert expertise for the enterprise responsive to receiving updates to one or more of the following: enterprise subject matter expert operational experience, systems experience, and technical experience; and

dynamically updating a knowledge map between enterprise requirements, enterprise technology, subject matter expertise, and enterprise capabilities responsive to the updated identified enterprise requirements, the updated identified enterprise technologies, and the updated identified enterprise subject matter expert expertise ~~when occurring~~;

at least the discovering, retrieving, and mapping performed with an automated software agent configured to communicate with the plurality of information resources and a dynamic reference repository database for storing collective knowledge, the automated software agent stored in a memory device accessible to the processing module.

2. (Previously presented) The method of claim 1,

wherein the step of discovering pertinent inputs includes determining the pertinent inputs in a context of a desired capability;

wherein the automated software agent is customizable by a user to define a customizable software agent; and

wherein the method further comprises the customizable software agent:

mapping an enterprise technical requirement received from a procuring entity and a plurality of pertinent technologies providing different technical solutions to a desired capability to allow users to evaluate the plurality of different technical solutions to the received enterprise technical requirement;

searching a plurality of information resources to discover the pertinent inputs to the dynamic reference repository,

cataloging the pertinent inputs to the dynamic reference repository, and
maintaining the pertinent inputs to the dynamic reference repository.

3. **(Canceled).**

4. (Currently amended) The method of claim 1,

wherein the step of discovering pertinent inputs to the dynamic reference repository includes identifying updates made to the plurality of information resources previously employed to populate the dynamic reference repository;

wherein the step of distributing the pertinent inputs includes updating the database within the dynamic reference repository; and

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wherein the method further comprises: providing automated notice of the identified updates made to the existing information resources to each of a plurality of users of the dynamic reference repository, and analyzing and drawing logical linkages between stored repository documents, capability assessments directed to the enterprise, and enterprise subject matter expert expertise.

5. (Previously presented) The method of claim 2,

wherein the customizable agent searches, discovers, and retrieves the pertinent inputs from Internet and intranet resources;

wherein the customizable agent searches, discovers, and retrieves the pertinent inputs from subject matter experts (SMEs) for the enterprise; and

wherein the customizable agent further comprises at least one utility configured to initiate contact with a SME with an online communication and to conduct a SME review or assessment of an enterprise technology or an enterprise capability, the online communication including a link to an interactive enterprise website associated with the dynamic reference repository to conduct the SME review or assessment.

6. (Canceled).

7. (Canceled).

8. (Previously presented) The method of claim 1,

wherein pertinent inputs are contained in, and retrieved by the automated software agent from communications addressed to the dynamic reference repository for storage within the dynamic reference repository;

wherein the communications addressed to the dynamic reference repository include e-mails containing a subject matter expert assessment of the desired enterprise capability to identify and refine one or more procurement entity provided requirements or enterprise technology addressed to the dynamic reference repository; and

wherein the automated software agent includes a utility to perform the step of generating a subject matter expert inputs request for information required to produce the determined pertinent inputs to obtain the required pertinent inputs required to satisfy the desired capability.

9. (Canceled).

10. (Previously presented) The method of claim 2,

wherein the customizable agent searches are developed using a graphical user interface (GUI) that interfaces with the dynamic reference repository;

wherein the GUI allows a particular user to develop, customize, and manage the customizable agent searches; and

wherein the method further comprises:

the customizable agent dynamically modifying a custom user search request prior to execution of the custom user search request to define a current dynamic agent search responsive to one or more of the following: past agent usage by the particular user and current search habits of the particular user, to optimize returned search results, the search results including additional information not desired by the particular user to define undesired information, and

providing automated feedback to the customizable agent responsive to a user refusing the undesired information returned during the current dynamic agent search to update a next dynamic agent search.

11. (Currently amended) A method for maintaining a dynamic reference repository for an enterprise, comprising the steps of:

performing by a processing module, an automated identification of a plurality of enterprise requirements and a plurality of pertinent enterprise technologies based on a plurality of desired enterprise capabilities to identify and populate the dynamic reference

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repository with a plurality of pertinent inputs required to support the plurality of desired enterprise capabilities;

discovering the pertinent inputs to the dynamic reference repository, the pertinent inputs including updates to a plurality of existing different information resources previously employed to populate the dynamic reference repository, the plurality of existing different information resources containing knowledge accessible to update or add to the collective knowledge stored within the dynamic reference repository;

retrieving the pertinent inputs to the dynamic reference repository to update or add to the collective knowledge stored in the dynamic reference repository;

contextually mapping the pertinent inputs to the dynamic reference repository;

dynamically updating a knowledge map between enterprise requirements, enterprise technology, and enterprise capabilities responsive to updated identified enterprise requirements and updated identified enterprise technologies;

~~the automated software agent~~ performing an automated recognition of a global replacement of a first name of a data item in one of the plurality of information resources used during an earlier first time period with that of a second name of the data item used during a later second time period responsive to contextual usage of the second name in the one of the plurality of information resources during the later second time period;

redefining the first name of the data item to that of the second name responsive to the automated recognition of the global replacement of the first name of the data item in the respective information resource, to retrieve pertinent articles, knowledge, or pieces of information defining a plurality of information resource items containing the data item previously referred to by the first name in the respective information resource; and

retrieving the plurality of information resource items responsive to a keyword search entry including the first name as a keyword and not the second name as a keyword, at least one information resource item of the plurality of returned information resource items including the data item identified by the second name and not the first name in the respective information resource item;

at least the discovering, retrieving, mapping, and automated recognition performed with an automated software agent configured to communicate with the plurality of information resources and a dynamic reference repository database for storing collective knowledge, the automated software agent stored in a memory device accessible to the processing module.

12. (Previously presented) The method of claim 1,

wherein the step of discovering the pertinent inputs further comprises running periodic prioritized customizable agent searches prioritized to specific reference materials; and

wherein the step of discovering the pertinent inputs further comprises automated time stamping of the discovered pertinent inputs with current time prior to dissemination of notice of the discovered pertinent inputs to users of the database.

13. (Previously presented) The method of claim 12,

wherein the customizable agent searches are neutral to document format;

wherein the pertinent inputs further comprise documents required to satisfy the desired capability from the plurality of information resources and in a plurality of different document formats, the plurality of different document formats comprising electronic forms that further comprise MS Office, web document, and e-mail document compatible forms;

wherein the customizable agent identifies the documents required to satisfy the desired capability for retrieval;

wherein the customizable agent integrates the retrieved documents having the plurality of different document formats into a common standard format used within an enterprise architecture system, the integration performed prior to storage in the dynamic reference repository; and

storing the retrieved documents in the common standard format.

14. (Canceled).

15. (Previously presented) The method of claim 1,

wherein the step of contextually mapping the pertinent inputs to the dynamic reference repository, includes the step of contextually relating use of a same term within each associated different information resource containing the same term to allow the term to be differentiated and properly used;

wherein the same term comprises an acronym for a first word phrase in one of the at least two different information resources and an acronym for a second word phrase in another one of the at least two different information resources, the second word phrase being unrelated to the first word phrase; and

wherein the method further comprises the step of interpreting the meaning of the same term differently for each of the at least two different information resources to differentiate each meaning of the term relative to the respective information resource to prevent returning non-pertinent inputs to a search query including the term.

16. (Previously presented) The method of claim 1, further comprising the steps of:

the automated software agent performing an automated recognition of a global replacement of a name of a data item in one of the plurality of information resources from a first name during an earlier first time period to a second name during a later second time period responsive to contextual usage of the second name in the one of the plurality of information resources during the second time period; and

retrieving a set of same articles, knowledge, or pieces of information responsive to a plurality of searches by the automated software agent, each based on a separate one of a corresponding plurality of different keyword names referring to a same data item.

17. (Currently amended) A dynamic reference repository system for maintaining a dynamic reference repository for an enterprise, the system comprising:

at least one database;

a plurality of different information resources operably coupled to the dynamic reference repository; and

a processing module operably coupled to the at least one database and operable to execute a set of instructions that when executed cause the processing module to perform the following operations:

- identifying enterprise ~~information~~ requirements and enterprise ~~technology requirements~~ technologies based on a desired enterprise capability to identify and populate the dynamic reference repository with pertinent inputs required to support the desired enterprise capability,

- identifying the pertinent inputs to the dynamic reference repository within the plurality of different information resources, the pertinent inputs comprising data from the plurality of different information resources containing knowledge accessible to update or add to collective knowledge stored within the dynamic reference repository,

- retrieving the pertinent inputs to the dynamic reference repository from the plurality of information resources to update or add to the collective knowledge stored in the dynamic reference repository,

- contextually mapping the pertinent inputs required to support the desired enterprise capability, from the plurality of different information resources to the dynamic reference repository,

- managing the pertinent inputs to the dynamic reference repository to include:

- dynamically updating identified enterprise requirements received from a procuring entity responsive to receiving updates to one or more of the following: operational requirements, system requirements, technical requirements, and standards requirements,

- dynamically updating identified enterprise technologies responsive to receiving updates to one or more of the following: basic science, technological theory, technological solutions, and technological sources,

dynamically updating identified enterprise subject matter expert expertise for the enterprise responsive to receiving updates to one or more of the following: enterprise subject matter expert operational experience, systems experience, and technical experience.

dynamically updating a knowledge map between procurement entity provided enterprise requirements provided by a procurement entity, enterprise technology, subject matter expert expertise, and the desired enterprise capability responsive to one or more of the following: updated identified enterprise requirements, updated identified enterprise technologies, and updated identified enterprise subject matter expert expertise, and

distributing the pertinent inputs to update the dynamic reference repository.

18. (Previously presented) The dynamic reference repository system of claim 17,

wherein the operation of identifying the pertinent inputs to the dynamic reference repository includes determining the pertinent inputs in a context of the specified desired capability;

wherein the operation of dynamically updating a knowledge map includes:

cataloging the pertinent inputs to the dynamic reference repository, and

mapping an enterprise technical requirement received from a procuring entity and a plurality of pertinent technologies providing different technical solutions to the desired capability to allow users to evaluate the plurality of different technical solutions to the received enterprise technical requirement; and

wherein the system further comprises at least one customizable agent configured to search and retrieve the pertinent inputs to the dynamic reference repository from the plurality of information resources and to contextually map the pertinent inputs to the dynamic reference repository to the desired capability.

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19. (Previously presented) The dynamic reference repository system of claim 17, wherein the pertinent inputs to the dynamic reference repository include updates made to the plurality of information resources utilized by the processing module as a plurality of prior existing sources of information for the dynamic reference repository.

20. (Currently amended) The dynamic reference repository system of claim 17,

wherein the operation of identifying the pertinent inputs to the dynamic reference repository includes identifying updates made to the plurality of information resources being previously employed by the processing module to populate the dynamic reference repository to define a plurality of existing information resources;

wherein the operation of distributing the pertinent inputs includes updating the database within the dynamic reference repository; and

wherein the processing module is further operable to perform the operations of providing automated notice of the identified updates made to the plurality of existing information resources to each of a plurality of users of the dynamic reference repository, and analyzing and drawing logical linkages between updated repository documents, capability assessments directed to the enterprise, and enterprise subject matter expert expertise inputs.

21. (Previously presented) The dynamic reference repository system of claim 17,

wherein the plurality of information resources comprise one or more of the following: Internet, intranet, and subject matter experts (SMEs) resources;

wherein the processing module is further operable to perform the operations of:

discovering the pertinent inputs by executing a periodic prioritized search of reference materials within the plurality of information resources prioritized to specific user-selected reference materials, and

time stamping the pertinent inputs with current time prior to dissemination of notice to users of the at least one database.

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22. (Previously presented) The dynamic reference repository system of claim 17, further comprising:

at least one customizable agent configured to search and retrieve the pertinent inputs to the dynamic reference repository from the plurality of information resources, the at least one customizable agent comprising at least one utility configured to initiate contact with a subject matter expert (SME) with an online communication and to conduct an interactive SME review or assessment of a procurement entity provided enterprise requirement, an enterprise technology or the desired enterprise capability, the online communication including a link to an interactive enterprise website associated with the dynamic reference repository to conduct the SME review or assessment; and

an interface configured to provide a single common user entry point into the at least one database for a plurality of physically spaced apart users connected through a corresponding plurality of different networks, and configured to allow each of the plurality of users to create, edit, and manage the at least one customizable agent to create, populate, and maintain contextual information extracted from the plurality of information resources to provide shared knowledge throughout an enterprise.

23. (Previously presented) The dynamic reference repository system of claim 22,

wherein the at least one customizable agent is configured to:

dynamically modify a custom user search request prior to execution of the custom user search request to define a current dynamic agent search responsive to one or more of the following: past agent usage by a particular user and current search habits of the particular user to optimize returned search results, the search results including additional information not desired by the particular user to define undesired information, and

dynamically perform an automated updating of a next customizable agent search for the particular user responsive to user input refusing the undesired information returned during a current customizable agent search; and

wherein the interface to the at least one database is configured to receive pertinent inputs contained within communications addressed to the dynamic reference

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repository, and to retrieve the received pertinent inputs to the dynamic reference repository for ~~storage~~ storage in the dynamic reference repository.

24. (Canceled).

25. (Previously presented) The dynamic reference repository system of claim 23,

wherein the communications addressed to the dynamic reference repository are e-mails containing subject matter expert assessments of a procurement entity provided enterprise requirement, enterprise technology, or enterprise capability addressed to the dynamic reference repository; and

wherein the at least one customizable agent includes a utility to generate a subject matter expert input request for information required to produce the determined pertinent inputs to obtain the required pertinent inputs required to satisfy the desired capability.

26. (Previously presented) The dynamic reference repository system of claim 23, wherein the at least one customizable agent comprises utilities to:

recognize a global replacement of a first name of a data item in the plurality of information resources responsive to contextual usage of the first name in the plurality of information resources to retrieve pertinent articles, knowledge, or pieces of information containing the data item referred to by a different name in the plurality of information resources; and

redefine the first name of the data item to that of the second name responsive to the recognition of the global replacement of the first name of the data item in the plurality of information resources to retrieve pertinent articles, knowledge, or pieces of information containing the data item previously referred to by the first name in the plurality of information resources.

27. (Previously presented) The dynamic reference repository system of claim 22,

wherein the at least one customizable agent is neutral to document format;

wherein the pertinent inputs further comprise documents required to satisfy the desired capability from the plurality of information resources and in a plurality of different document formats, the plurality of different document formats comprising electronic forms that further comprise MS Office, web document, and e-mail document compatible forms;

wherein the at least one customizable agent is configured to identify the documents required to satisfy the desired capability for retrieval; and

wherein the at least one customizable agent is configured to integrate the retrieved documents having the plurality of different document formats into a common standard format used within an enterprise architecture system including the dynamic reference repository system; and

storing the retrieved documents in the common standard format.

28. (Canceled).

29. (Previously presented) The dynamic reference repository system of claim 17,

wherein the operation of contextually mapping the pertinent inputs to the dynamic reference repository includes the operation of contextually relating use of a same term within each associated different information resource containing the same term to allow the term to be differentiated and properly used; and

wherein the processing module is further operable to perform the operation of interpreting the meaning of the same term differently for the at least two different information resources to differentiate each disparate meaning of the term relative to the respective associated different information resource to prevent returning non-pertinent inputs to a search query including the term.

30. (Previously presented) The dynamic reference repository system of claim 17, further comprising at least one customizable software agent configured to:

recognize a global replacement of a name of a data item in one of the plurality of information resources from a first name during an earlier first time period to a second

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name during a later second time period responsive to contextual usage of the second name in the one of the plurality of information resources during the second time period; and

retrieve a second set of articles, knowledge, or pieces of information defining a second set of returned pertinent inputs returned from the one of the plurality of information resources responsive to a second keyword search by the at least one customizable software agent performed during the second time period, the second set of returned pertinent inputs related to a similar first set of previously retrieved pertinent inputs retrieved responsive to a first keyword search performed during the first time period, the first keyword search and the second keyword search both including the first name as a keyword and not the second name as a keyword, at least one of the second set of returned pertinent inputs including the second name used to refer to the data item and not the first name to refer to the data item.

31. (Currently amended) A method for populating a dynamic reference repository for an enterprise, comprising:

performing by a processing module, an automated identification of enterprise ~~information~~ requirements and pertinent enterprise ~~technology—requirements technologies~~ based on a desired enterprise capability to identify and populate the dynamic reference repository with pertinent inputs required to support the desired enterprise capability;

discovering pertinent inputs to the dynamic reference repository, the pertinent inputs comprising data from a plurality of information resources containing knowledge accessible to update or add to the collective knowledge stored within the dynamic reference repository;

retrieving the pertinent inputs to the dynamic reference repository, wherein an automated customizable software agent searches for, discovers, and retrieves the pertinent inputs to the dynamic reference repository from Internet or intranet accessible resources;

managing the pertinent inputs to the dynamic reference repository to update or add to the collective knowledge stored in the dynamic reference repository;
distributing the pertinent inputs to populate the dynamic reference repository; and
at least the discovering, retrieving, managing, and distributing performed by the automated customizable software agent configured to communicate with the plurality of information resources and the stored knowledge in the dynamic reference repository, the customizable software agent stored in a memory device accessible to the processing module and including at least one utility configured to initiate contact with a SME with an online communication and to conduct a subject matter expert (SME) review or assessment of an enterprise technology or the desired enterprise capability, the online communication including a link to an interactive enterprise website associated with the dynamic reference repository to conduct the SME review or assessment.

32. (Previously presented) The method of claim 31, further comprising the steps of:

conducting the SME review or assessment of the enterprise technology or the desired enterprise capability through the interactive enterprise website; and
refining the desired enterprise capability responsive to the SME review or assessment.

33. (Previously presented) The method of claim 31,

wherein the step of managing the pertinent inputs to the dynamic reference repository includes the steps of:

contextually relating use of a term within each of a first and a second one of the plurality of information resources containing the term to allow the term to be differentiated and properly used, and

differentiating a first meaning behind the term with respect to an associated first one of the plurality of information resources and a second meaning behind the term with respect to a second one of the plurality of

information resources unrelated to the first meaning, to prevent returning non-pertinent inputs to a search query including the term;

wherein the first one of the plurality of information resources is a first electronic communication addressed to the dynamic reference repository;

wherein the second one of the plurality of information resources is a second electronic communication addressed to the dynamic reference repository;

wherein the first and the second meanings are disparate first and second meanings;

wherein the term is an acronym used as a keyword matching a first abbreviation of a word or phrase used within the first electronic communication according to the first meaning and matching a second abbreviation of a different word or phrase used in the second electronic communication according to the second meaning;

wherein the pertinent inputs are contained in and retrieved by the customizable software agent from the first and the second electronic communications addressed to the dynamic reference repository;

wherein the step of contextually relating use of a term within each of a first and a second one of the plurality of information resources containing the term includes: tagging the acronym and contextually relating the acronym separately with each of the separate associated first and second electronic communications to allow the acronym to be differentiated and properly used to maintain integrity of each assigned meaning of the acronym; and

wherein the method further comprises interpreting the meaning of the acronym differently for the first and the second electronic communications to differentiate each meaning of the acronym relative to the respective electronic communication to prevent returning non-pertinent inputs to a search query directed to data associated with only one of the disparate meanings.

34. (Canceled).

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35. (Canceled)

36. (Previously presented) The method of claim 1,

wherein the step of discovering pertinent inputs includes iteratively performing an automated search for updates made to the plurality of existing information resources for the dynamic reference repository and identification of such updates when existing responsive to a preset interval;

wherein the step of distributing the pertinent inputs includes updating the database within the dynamic reference repository responsive to the automated identification of the updates; and

wherein the method further comprises the step of automatically disseminating a plurality of user tailored notices of the identified updates to a corresponding plurality of users of the dynamic reference repository responsive to the automated identification of the updates, each user tailored notice individually tailored for each separate one of the plurality of users responsive to a list of keywords provided by the respective user and different from that of each other of the plurality of users to provide selective individual user-based notification.

37. (Previously presented) The method of claim 1, further comprising the steps of:

dynamically modifying a current search for a user searching the dynamic reference repository prior to execution of the current search responsive to search habits of the user to optimize search results for the user, the search results of the current search including additional information not desired by the particular user to define undesired information; and

dynamically updating a next search responsive to user input rejecting the undesired information gathered during the current search to optimize search results for the user.

38. (Previously presented) The dynamic reference repository system of claim 17,

wherein the processing module is further operable to:

tag a term and contextually relate the term with its associated information resource to allow the term to be differentiated and properly used to maintain integrity of an assigned meaning of the term, and

differentiate a first meaning behind the term with respect to a first associated information resource and a second meaning behind the term with respect to a second information resource to prevent returning non-pertinent inputs to a search query including the term; and

wherein the processing module is further operable to:

redefine contextually a definition of the term underlying the at least one database responsive to one or more identified pertinent inputs identifying a change in a usage of the term.

39. (Previously presented) The dynamic reference repository system of claim 17,

wherein the instructions to identify pertinent inputs to the dynamic reference repository include those to perform an automated identification of updates made to the plurality of information resources being previously employed by the processing module to populate the dynamic reference repository to define a plurality of existing information resources for the dynamic reference repository and identification of such updates when existing responsive to a preset interval;

wherein instructions to distribute the pertinent inputs includes those to update the at least one database within the dynamic reference repository responsive to the automated identification of the updates; and

wherein the processing module is further operable to automatically disseminate a plurality of user tailored notices of the identified updates to a corresponding plurality of users of the dynamic reference repository responsive to the automated identification of the updates, each user tailored notice individually tailored for each separate one of the plurality of users responsive to a list of keywords provided by the respective user and different from that of each other of the plurality of users to provide selective individual user-based notification to enhance prevention of notification of updates of no interest to the respective user.

40. (Previously presented) The dynamic reference repository system of claim 17, wherein the processing module is further operable to:

 dynamically modify a current search for a user searching the dynamic reference repository prior to execution of the current search responsive to search habits of the user to optimize returned search results for the user, the search results of the current search including additional information not desired by the particular user to define undesired information; and

 dynamic update a next search responsive to user input rejecting the undesired information gathered during the current search to optimize search results for the user.

41. (Canceled).

42. (Canceled).

43. (Canceled).

44. (Currently amended) A dynamic reference repository system for maintaining a dynamic reference repository for an enterprise, the system comprising:

 at least one database;

 a plurality of different information resources operably coupled to the dynamic reference repository; and

 a processing module operably coupled to the at least one database and operable to execute a set of instructions that when executed cause the processing module to perform the following operations:

 identifying enterprise ~~information~~ requirements and pertinent enterprise ~~technology requirements~~ technologies based on a desired enterprise capability to identify and populate the dynamic reference repository with pertinent inputs required to support the desired enterprise capability,

identifying the pertinent inputs to the dynamic reference repository within the plurality of different information resources, the pertinent inputs comprising data from the plurality of different information resources containing knowledge accessible to update or add to collective knowledge stored within the dynamic reference repository,

retrieving the pertinent inputs to the dynamic reference repository from the plurality of information resources to update or add to the collective knowledge stored in the dynamic reference repository,

contextually mapping the pertinent inputs required to support the desired enterprise capability, from the plurality of different information resources to the dynamic reference repository,

managing the pertinent inputs to the dynamic reference repository to include:

dynamically updating a knowledge map between procurement entity provided enterprise requirements provided by a procurement entity, enterprise technology, subject matter expert expertise ~~inputs~~, and the desired enterprise capability responsive to one or more of the following: updated identified enterprise requirements, updated identified enterprise technologies, and updated identified enterprise subject matter expert expertise ~~inputs~~, and

distributing the pertinent inputs to update the dynamic reference repository; and

at least one customizable agent configured to search and retrieve the pertinent inputs to the dynamic reference repository from the plurality of information resources, the at least one customizable agent comprising at least one utility configured to initiate contact with a subject matter expert (SME) with an online communication and to conduct an interactive SME review or assessment of a procurement entity provided enterprise requirement, an enterprise technology or the desired enterprise capability,

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the online communication including a link to an interactive enterprise website associated with the dynamic reference repository to conduct the SME review or assessment.

45. (Previously presented) The dynamic reference repository system of claim 44,

wherein the operation of identifying pertinent inputs to the dynamic reference repository includes determining the pertinent inputs in a context of the specified desired capability;

wherein the operation of dynamically updating a knowledge map includes:

cataloging the pertinent inputs to the dynamic reference repository, and

mapping an enterprise technical requirement received from a procuring entity and a plurality of pertinent technologies providing different technical solutions to the desired capability to allow users to evaluate the plurality of different technical solutions to the received enterprise technical requirement; and

wherein the at least one customizable agent is further configured to contextually map the pertinent inputs to the dynamic reference repository to the desired capability.

46. (Previously presented) The dynamic reference repository system of claim 44, wherein the pertinent inputs to the dynamic reference repository include updates made to the plurality of information resources utilized by the processing module as a plurality of prior existing sources of information for the dynamic reference repository, and wherein the processing module is further operable to perform the following operations:

dynamically updating identified enterprise requirements provided by a procuring entity responsive to receiving updates to one or more of the following: operational requirements, system requirements, technical requirements, and standards requirements;

dynamically updating identified enterprise technologies responsive to receiving updates to one or more of the following: basic science, technological theory, technological solutions, and technological sources; and

dynamically updating identified enterprise subject matter expert expertise for the enterprise responsive to receiving updates to one or more of the following: enterprise

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subject matter expert operational experience, systems experience, and technical experience.

47. (Currently amended) The dynamic reference repository system of claim 44,

wherein the operation of identifying the pertinent inputs to the dynamic reference repository includes identifying updates made to the plurality of information resources being previously employed by the processing module to populate the dynamic reference repository to define a plurality of existing information resources;

wherein the operation of distributing the pertinent inputs includes updating the database within the dynamic reference repository; and

wherein the processing module is further operable to perform the operations of providing automated notice of the identified updates made to the plurality of existing information resources to each of a plurality of users of the dynamic reference repository, and analyzing and drawing logical linkages between updated repository documents, capability assessments directed to the enterprise, and enterprise subject matter expert expertise inputs.

48. (Previously presented) The dynamic reference repository system of claim 44, wherein the at least one customizable agent is configured to:

dynamically modify a custom user search request prior to execution of the custom user search request to define a current dynamic agent search responsive to one or more of the following: past agent usage by a particular user and current search habits of the particular user to optimize returned search results, the search results including additional information not desired by the particular user to define undesired information, and

dynamically perform an automated updating of a next customizable agent search for the particular user responsive to user input refusing the undesired information returned during a current customizable agent search.

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49. (Previously presented) The dynamic reference repository system of claim 44, wherein the at least one customizable agent comprises utilities to:

recognize a global replacement of a first name of a data item in the plurality of information resources responsive to contextual usage of the first name in the plurality of information resources to retrieve pertinent articles, knowledge, or pieces of information containing the data item referred to by a different name in the plurality of information resources; and

redefine the first name of the data item to that of the second name responsive to the recognition of the global replacement of the first name of the data item in the plurality of information resources to retrieve pertinent articles, knowledge, or pieces of information containing the data item previously referred to by the first name in the plurality of information resources.

50. (Previously presented) The dynamic reference repository system of claim 44, further comprising at least one customizable software agent configured to:

recognize a global replacement of a name of a data item in one of the plurality of information resources from a first name during an earlier first time period to a second name during a later second time period responsive to contextual usage of the second name in the one of the plurality of information resources during the second time period; and

retrieve a second set of articles, knowledge, or pieces of information defining a second set of returned pertinent inputs returned from the one of the plurality of information resources responsive to a second keyword search by the at least one customizable software agent performed during the second time period, the second set of returned pertinent inputs related to a similar first set of previously retrieved pertinent inputs retrieved responsive to a first keyword search performed during the first time period, the first keyword search and the second keyword search both including the first name as a keyword and not the second name as a keyword, at least one of the second set of returned pertinent inputs including the second name used to refer to the data item and not the first name to refer to the data item.

Reason for Allowance

The following is an examiner's statement of reasons for allowance:

The claims as amended include features not anticipated nor rendered obvious by the prior art of record. In particular, the claims are directed towards specific features to maintaining a dynamic reference repository. The independent claims 1, 11, 17, 31, and 44 include at least the feature of dynamically updating identified enterprise requirements received from a procuring entity responsive to receiving updates to one or more of the following: operational requirements, system requirements, technical requirements, and standards requirements; dynamically updating identified enterprise technologies responsive to receiving updates to one or more of the following: basic science, technological theory, technological solutions, and technological sources; dynamically updating identified enterprise subject matter expert expertise for the enterprise responsive to receiving updates to one or more of the following: enterprise subject matter expert operational experience, systems experience, and technical experience; and dynamically updating a knowledge map between enterprise requirements, enterprise technology, subject matter expertise, and enterprise capabilities responsive to the updated identified enterprise requirements, the updated identified enterprise technologies, and the updated identified enterprise subject matter expert expertise.

Goodwin, the closest found prior art to the present invention, teaches a knowledge map; however, Goodwin's knowledge map is a map of the relationships between organizational resources and is referred to as a taxonomy (Goodwin, col. 3 lines 15-21). Goodwin's knowledge map would not anticipate or render obvious

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Applicant's knowledge map as it is recited in the claims in combination with the other recited features.

Further, the prior art of Pakhomov, Barney, nor Kravets alone or in combination with Goodwin do not remedy this deficiency.

The dependent claims of the aforementioned include the same subject matter and are allowed by virtue of their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patent documents

U.S. Patent 7,346,529 issued to Flores.

U.S. Patent 7,017,183 issued to Fret et al.

U.S. Patent 7,308,414 issued to Parker et al.

U.S. Patent Application 2002/0169737 filed by Armstrong et al.

U.S. Patent Application 2003/0093310 filed by Macrae.

Non-Patent Literature:

Pohs, Wendy, "A preview of Lotus Discovery Server 2.0". May 1, 2002.
<http://www.ibm.com/developerworks/lotus/library/lS-DSpreview/index.html>.

"How Scirus Works". A white paper on the Scirus scientific search engine.
Published February, 2003.

Roger D. Smith. "Chief Technology Officer (CTO) Roles and
Responsibilities "Research Technology Management, Jul-August 2003.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT TIMBLIN whose telephone number is (571)272-5627. The examiner can normally be reached on M-Th 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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